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DIALOG(R)File 351:Derwent WPI

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Catalysts for polymerisation of olefin(s) - obtd. by dissolving magnesium halide(s) in mixt. of heterocyclic cpds. and electron donors, then contacting with titanium and/or vanadium halide(s), etc.

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Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 4331210	A	19921119	JP 90334433	A	19901130	199301 B

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Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
JP 4331210	A	12	C08F-010/00	

Abstract (Basic): JP 4331210 A

Catalysts comprise (A) solid prods. obtd. by dissolving (1) Mg halides in (2) mixt. of (a) heterocyclic cpds. and (b) electron donors, standing the solns. obtd. in contact with (3) halides of Ti and/or V or mixts. of (3) and (4) electron donors and treating the solids prods. with (3) and (4), (B) organic Al cpds. and (C) electron donors.

Pref. (a) are oxygen-contg. cpds.

USE/ADVANTAGE - The catalysts are used for polymerisation, partic. vapour phase polymerisation of olefins. Crystallise carriers having good shape, sharp granular dia. distribution and arbitrary average granular dia. are obtd.

In an example, in the prepn. of (A) 400ml of toluene, 20g of $MgCl_2$, 200ml of THF and 20ml of ethanol were mixed with stirring. The mixt. was heated and refluxed for 1 hr. The homogeneous soln. was cooled to 40 deg.C, blended with 38ml of $TiCl_4$ and 38ml of hexamethyldisiloxane, heated to 80 deg.C for 20 mins. and held at 80 deg.C for 1 hr. The supernatant was removed and the crystalline carrier formed was washed twice with 100ml of toluene. The solid prod. obtd. was mixed with 240ml of toluene and 100ml of $TiCl_4$, heated to 115 deg.C with stirring for 20 mins. and held at 115 deg.C for 1 hr. Stirring was stopped. The supernatant was removed. The solid prod. obtd. was blended with 300ml of toluene, 100ml of $TiCl_4$ and 5ml of di-n-butyl phthalate, stirred at 115 deg.C for 1.5 hr. The supernatant was removed. The prod. was blended with 240ml of $TiCl_4$ and treated at 115 deg.C for 0.5 hr. The supernatant was removed. The prod. was washed with 200ml of toluene and 400ml of hexane, filtered out under N_2 and dried under reduced pressure. 16.2g of solid prod. were obtd.

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Derwent Class: A17; A60

International Patent Class (Main): C08F-010/00

International Patent Class (Additional): C08F-004/658; C08F-004/68

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